

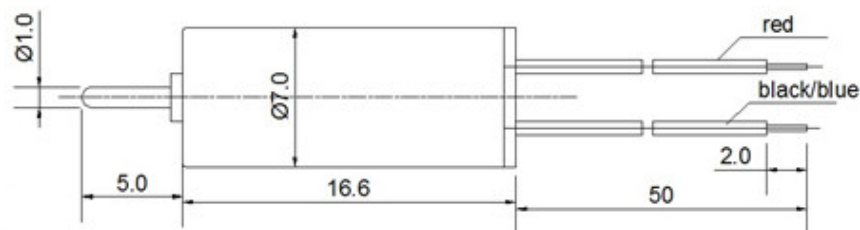
# DC coreless motor 7mm / 直流空心杯馬達 7mm

Ø7mm, precious metal brushes/Ø7mm, 貴金屬電刷

## Outline Drawing/外形圖



Widely used in model aircraft, electric toys, and medical devices/  
廣泛用於航模, 電動玩具, 醫療器械



## 716 Series / 716系列

Model/型號 001 002 003 004 005 006 007

## Motor data (25°C) / 運行參數 (25°C)

1 Assigned power/標稱功率	W	0.2	0.1	0.2	1.1	0.3		
2 Nominal voltage/額定電壓	Volt	1.3	1.3	3.7	3.7	4.5		
3 Terminal resistance/端電阻	±15% Ohm	1.6	3.2	10.8	2	10.8		
4 No-Load speed/空載轉速	±12% rpm	22,900	13,200	25,000	42,500	31,000		
5 No-Load current/空載電流	≤150% mA	60	25	20	80	30		
6 Speed constant/速度常數	rpm/V	17,615	10,154	6,757	11,486	6,889		
7 Torque constant/轉矩常數	mNm/A	0.50	0.88	1.33	0.80	1.29		
8 Starting current/啟動電流	mA	813	406	343	1,850	417		
9 Stall torque/堵轉轉矩	mNm	0.41	0.36	0.46	1.47	0.54		
12 Max. efficiency/最大效率	%	53	57	58	63	54		

## At max. efficiency/最大效率點

1 Current/電流	mA	225	100	75	380	100		
2 Torque/轉矩	mNm	0.11	0.09	0.10	0.30	0.13		
3 Speed/轉速	rpm	16,558	9,951	19,527	33,770	23,560		
4 Power/功率	W	0.20	0.092	0.204	1.069	0.317		

## At max. output/最大輸出功率點

1 Current/電流	mA	440	215	180	970	220		
2 Torque/轉矩	mNm	0.22	0.19	0.24	0.77	0.28		
3 Speed/轉速	rpm	10,499	6,214	11,865	20,216	14,632		
4 Power/功率	W	0.24	0.12	0.30	1.63	0.43		

## Additional information/其它相關信息

- Axial play/軸向間隙 0.05~0.35mm
- Force for press-fits/最大允許安裝力
  - Radial/徑向 0.8N
  - Axial/軸向 9.8N
- Ambient temperature range/環境溫度範圍 -20~+65°C
- Max. rotor temperature/轉子承受最高溫度 +85°C
- Weight of motor/電機重量 2.3g
- Motor parameters can be made according to the request of customer/馬達參數可根據客人要求制作
- Options: Output shaft length, leadwire length, /其它可選項: 出力軸長, 引線長度,



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